

DERWENT-ACC-NO: 2000-306330
DERWENT-WEEK: 200027
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TITLE: Indicating status of vehicle braking system using
combination of
interconnected sensors and switches, with indication
provided using red hazard
triangular shaped lights on vehicle

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PATENT-ASSIGNEE: WEIR A W[WEIRI]

PRIORITY-DATA: 1998GB-0022597 (October 17, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
GB 2342712 A	April 19, 2000	N/A
008	B60Q 001/44	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
GB 2342712A	N/A	1998GB-0022597
October 17, 1998		

INT-CL (IPC): B60Q001/44

ABSTRACTED-PUB-NO: GB 2342712A

BASIC-ABSTRACT: NOVELTY - The method involves the use of
indicator lights
activated by a combination of interconnected sensors and
switches which
indicate the status of the braking system of a vehicle when
viewed from the
front, side or rear and complies with current traffic
legislation. Indication
is provided by a red hazard triangular shaped lights for
side and front
locations.

USE - The method is used to indicate the status of a
vehicle braking system.

ADVANTAGE - Road safety is improved.

DESCRIPTION OF DRAWING(S) - The drawing shows a general arrangement of the indication method in use.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS:

INDICATE STATUS VEHICLE BRAKE SYSTEM COMBINATION
INTERCONNECT SENSE SWITCH
INDICATE RED HAZARD TRIANGLE SHAPE LIGHT VEHICLE

DERWENT-CLASS: Q16 X22 X26

EPI-CODES: X22-B02A; X26-D;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-229099

(12) **UK Patent Application** (19) **GB** (11) **2 342 712** (13) **A**

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(51) INT CL⁷
B60Q 1/44

(52) UK CL (Edition R)
F4R RMP R376
H2H HSV4 H32

(56) Documents Cited
WO 97/01457 A1 US 5444620 A US 5311412 A
US 5258740 A US 4837554 A
WPI Abstract Accession No. 97-320307 [30] &
CN1105325A (Cai) 19.07.95

(58) Field of Search
UK CL (Edition P) F4R RMP
INT CL⁶ B60Q 1/26 1/32 1/44 1/50
On-line: WPI

(54) Abstract Title
Front, side and rear brake lights

(57) A process typically comprising indicator lights activated by a combination of interconnected sensors, detectors and switches which indicates the status of the braking system of a vehicle when viewed from the front, side or rear and complies with current traffic legislation.

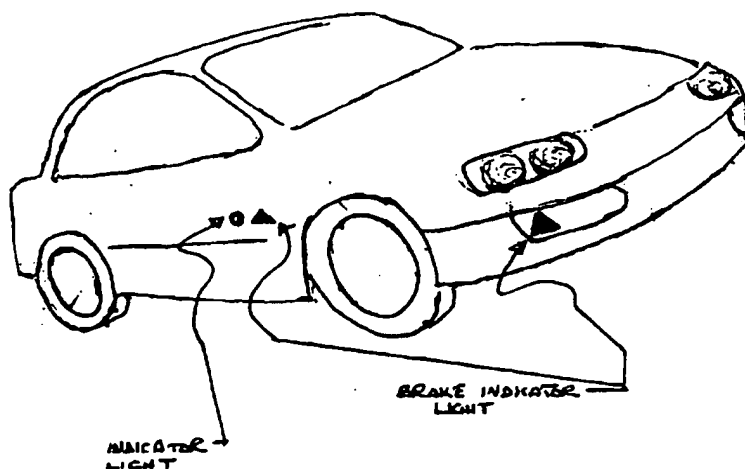


FIGURE 1

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GB 2 342 712 A

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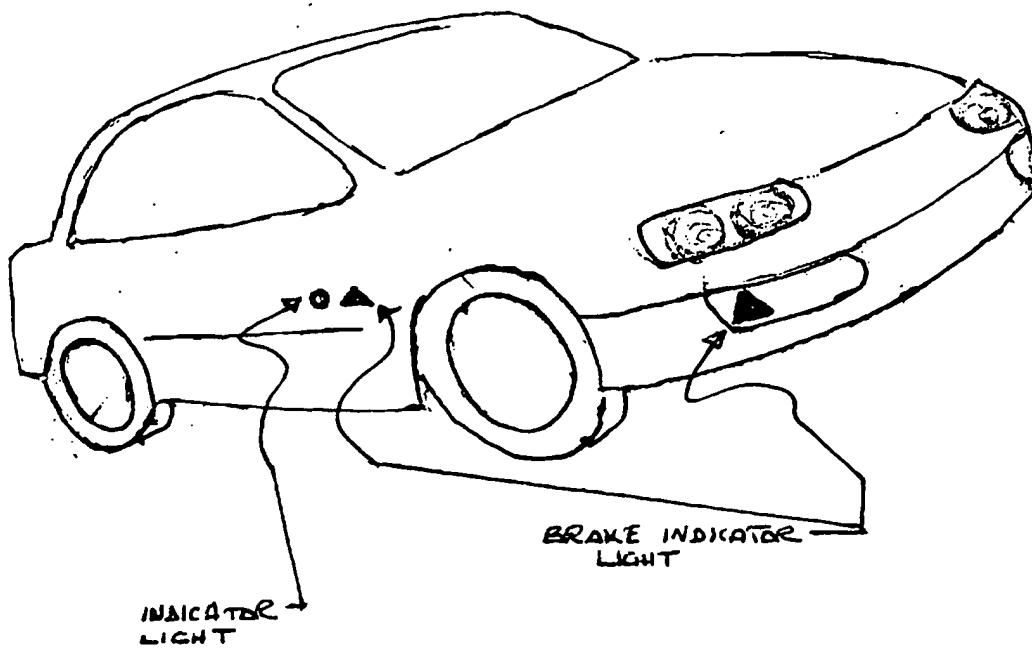
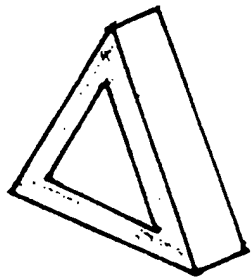


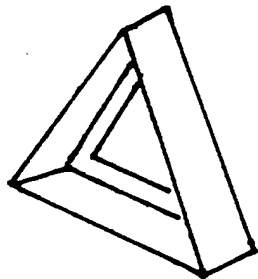
FIGURE 1

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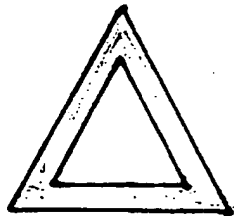
STYLE 1



Front Perspective

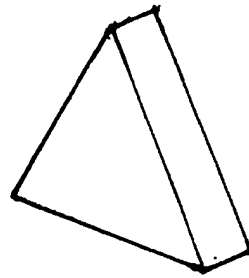


Rear Perspective

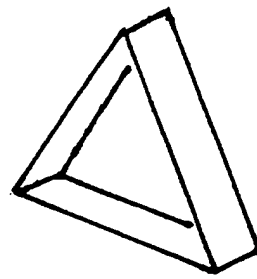


Front View

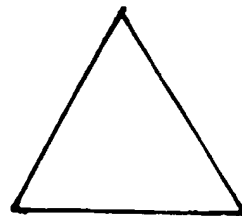
STYLE 2



Front Perspective



Rear Perspective



Front View

FIGURE 2

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BRAKE STATUS LIGHTS INDICATION SYSTEM

This invention relates to an innovative enhancement and application to the process which indicates externally the status of the braking system of a vehicle.

The traditional breaking system typically is activated by application of the brake pedal or other device which allows an electrical or other suitable circuit to activate an indicator light located at the rear of the vehicle. Two such indicator lights are typically provided each being located near each side of the vehicle though additional indicators may be employed.

This process significantly improves the safety features of a vehicle by indicating the brake condition to pedestrians and vehicle users.

This invention comprises a combination of such rear light conventional systems with additional indicator lights which may be located on the front and side of the vehicle and optionally linked and activated via Conventional switches and detectors to all braking Mechanisms including any parking or similar Device employed when the vehicle is stationary.

The System comprises external indicator lights positioned Front, Side and Rear of the Vehicle, linked to standard and conventional switches and detectors and adopts the Universal Hazard Triangular shape for the Side and Front light indicators, as indicated in Figure 1 enclosed.

The proposal is for a Red coloured triangular display at the Front and Side but may also be a display of Red bordered triangular hazard traffic sign configuration back lit in any appropriate colour but typically in white or amber, as indicated in Figure 2 enclosed.

These indicator lights would typically be of similar size and positioned adjacent to directional indicator lights or be incorporated within a composite light unit.

The system would display all lights should the braking device, typically the foot brake pedal be applied and be deactivated on release of the mechanism. It would also operate similarly should any other brake device, typically a hand brake be applied. These systems would normally operate when the vehicle ignition system was operating.

The objective is to comply with though overcome current traffic legislation limitations on the form of vehicle front light display while indicating the status that provides greater safety for pedestrians and other road users.

Figure 1 : General Arrangement of location of indicator

Figure 2 : Indicates Style 1 & 2 for light covers

CLAIMS

1. A process which indicates the status of a vehicle
Braking system
2. A process as claimed in 1 such that indication may be
provided front, rear and side of the vehicle.
3. A process as claimed in 1 & 2 such that indication is
via red hazard triangular shaped lights for side and
front locations.
4. A process as claimed in 1,2 & 3 such that it complies
with current traffic legislation.



Application No: GB 9822597.2
Claims searched: 1-4

Examiner: Jeremy Philpott
Date of search: 30 November 1998

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.P): F4R [RMP]

Int CI (Ed.6): B60Q: 1/26, 1/32, 1/44, 1/50

Other: On-line: WPI

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X, Y	WO 97/01457 A1 (Edward B. Walton) whole document & Figures, note page 4 lines 1-8.	1 & 2 (X) 3 & 4 (Y)
X, Y	US 5444620 (A-Chien Yeh) whole document, note Figure 5.	1 (X) 3 (Y)
X, Y	US 5311412 (Chang-An Yang) whole document, note Figure 2.	1 (X) 3 (Y)
X, Y	US 5258740 (General Motors Corporation) whole document & Figures, note Figure 2 & column 2 lines 51-58.	1 & 2 (X) 3 & 4 (Y)
X, Y	US 4837554 (Anthony Gianforcaro) whole document & Figures, note the Figure & column 5 lines 58-62.	1 & 2 (X) 3 & 4 (Y)
X, Y	WPI Abstract Accession. No. 97-320307 [30]; abstract of CN 1105325 A (J. Cai) pub. 19-7-95	1 (X) 3 (Y)

X Document indicating lack of novelty or inventive step
Y Document indicating lack of inventive step if combined with one or more other documents of same category.

& Member of the same patent family

A Document indicating technological background and/or state of the art.
P Document published on or after the declared priority date but before the filing date of this invention.
E Patent document published on or after, but with priority date earlier than, the filing date of this application.